

GE
Security

FHSD Monitor / Web Server user manual

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imagination at work

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CONTENTS

1	FHSD Monitor.....	4
1.1	Installation and setup	4
1.1.1	Connecting to a PC.....	4
1.1.2	Software installation.....	4
1.1.3	Software setup.....	4
1.2	User guide.....	5
1.2.1	FHSD display panel emulator.....	5
1.2.2	FHSD configuration utility	6
1.2.3	Engineering and maintenance menus	8
1.2.4	Data logger	8
1.2.5	Logging extraction application	10
1.2.6	Flow diagnostic log	11
2	FHSD Web Server.....	12
2.1	FHSD Web Server overview	12
2.2	IP address and IP mask values	12
2.3	Access levels and codes.....	12
2.4	FHSD Web Server pages.....	12
2.5	Technical support.....	14

1 FHSD MONITOR

The FHSD Monitor software provides a convenient method for calibration and monitoring of FHSD700 series panels.

The FHSD720 Pico can only be calibrated using the FHSD Monitor software as the panel does not include a control interface. Use of FHSD Monitor is optional for all other panels.

1.1 Installation and setup

1.1.1 Connecting to a PC

The FHSD700 panel must be connected to the PC using an RS232 cable. The cable connects the RS232 connector on the FHSD700 panel I/O PCB i606 to one of the PC serial communications (COM) ports (usually 1 or 2).



Write down the COM port address used as this will be required later.

1.1.2 Software installation

Installation from CD:

1. Insert the CD into your computer's CD-ROM drive.
2. The installation program will start automatically. If it doesn't, choose Start > Run. Click Browse and choose the file Setup.exe on the CD. Click OK in the Run dialog box.
3. Follow the onscreen instructions to complete the installation.

Installation from downloaded installer file:

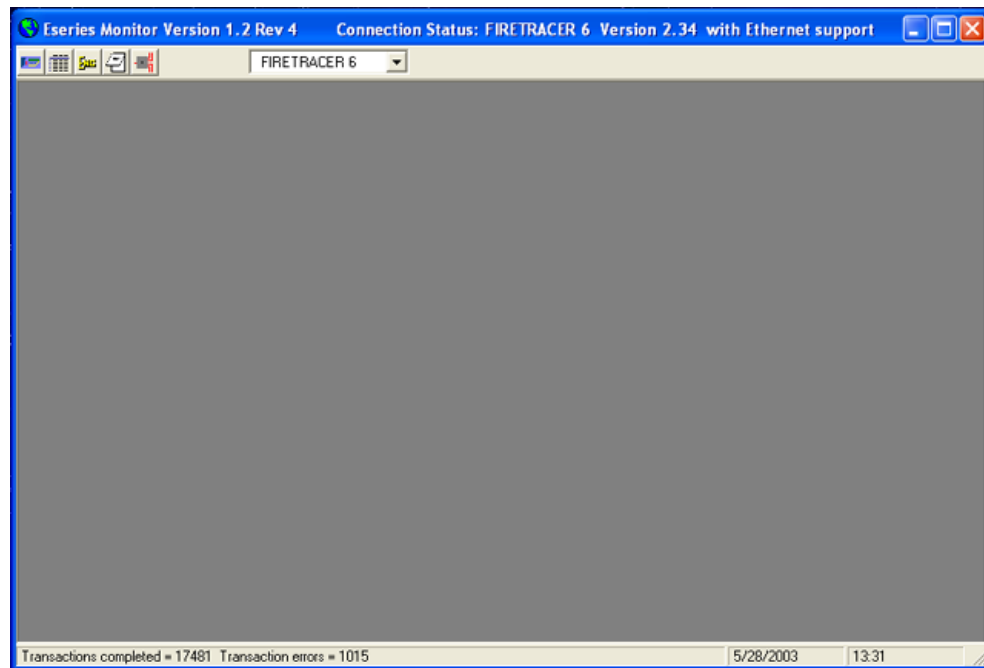
Double-click the downloaded installer file and follow the onscreen instructions.

1.1.3 Software setup

When first run, the program will ask for the COM port address of the PC being used and the Modbus. Enter the COM port address used and the Modbus address (usually 1).

The main screen of the program will now be visible (see Figure 1 Main screen). The top of the screen displays information about your FHSD700 system. This includes the FHSD700 model, whether it is web enabled and the version being used.

Figure 1: Main screen

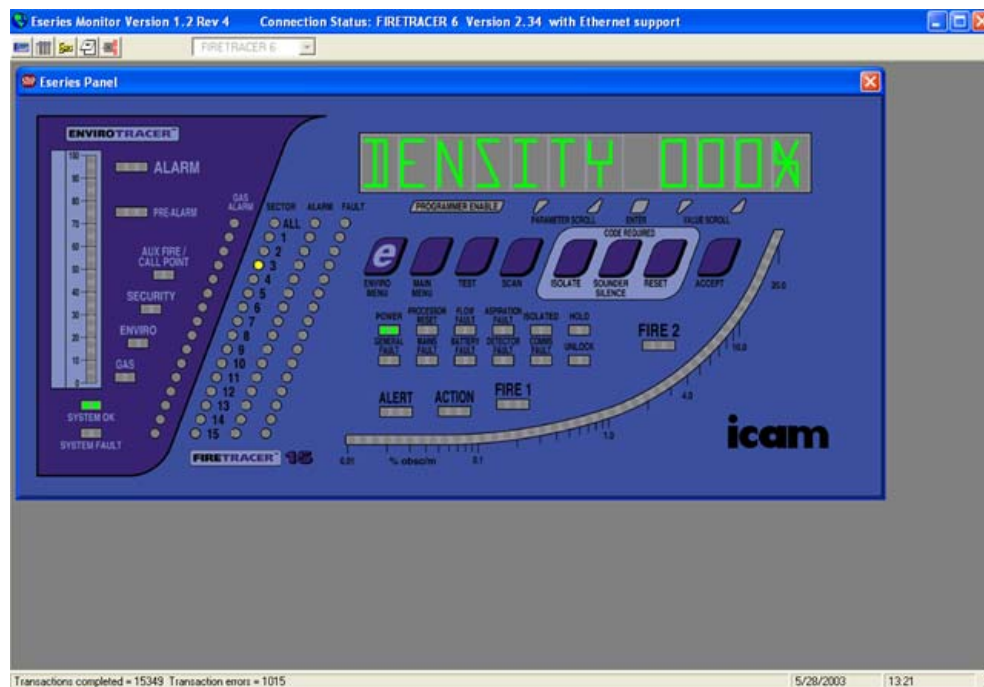


1.2 User guide

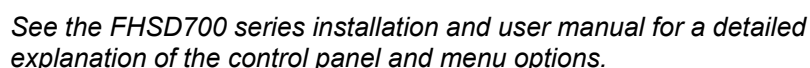
The main program screen is blank except for five menu buttons in the top left corner. These are used to access the various software utilities.

1.2.1 FHSD display panel emulator

Figure 2: Display panel emulator



This launches the FHSD display panel emulator and is used to enter setup and configuration data in the same way that it would be performed on the panel.



The other software functions allow panel setup and calibration using forms and tables and may be more suitable for some users. This method is more detailed and some variables (such as the IP address) can be entered more easily than via the display panel.

Figure 3: Configuration utility

All values must be entered with a decimal point even if they are displayed with a comma.

1. Main list

See the FHSD700 series installation and user manual for a full description of the items included in this list.

2. Sector list

See the FHSD700 series installation and user manual for a full description of the items included in this list.

*To change the night settings the display panel emulator **must** be used.*

3. Setup list

This is made up of the following settings:

Parameter	Full name	Range	Default value
REMPANEL	Remote panel	0 or 1	0
REMPOD	Remote pod	0 or 1	0
DETFLOW	Detector flow	0 or 1	0
CCODE	Country code	0 to 99	44
MOD1	Module 1	0	
MOD2	Module 2	0	
MOD3	Module 3	0	
MOD4	Module 4	0	
MOD5	Module 5	0	

- If a remote panel is connected then REMPANEL should be set to 1.
- If an Enviropod is connected then REMPOD should be set to 1.
- If the detector flow is to be monitored then DETFLOW should be set to 1.
- CCODE sets the panel language. *See the FHSD700 series installation and user manual for a list of available languages and codes.*
- Use MOD1-5 to enter the code of any attached module.

4. Environment list

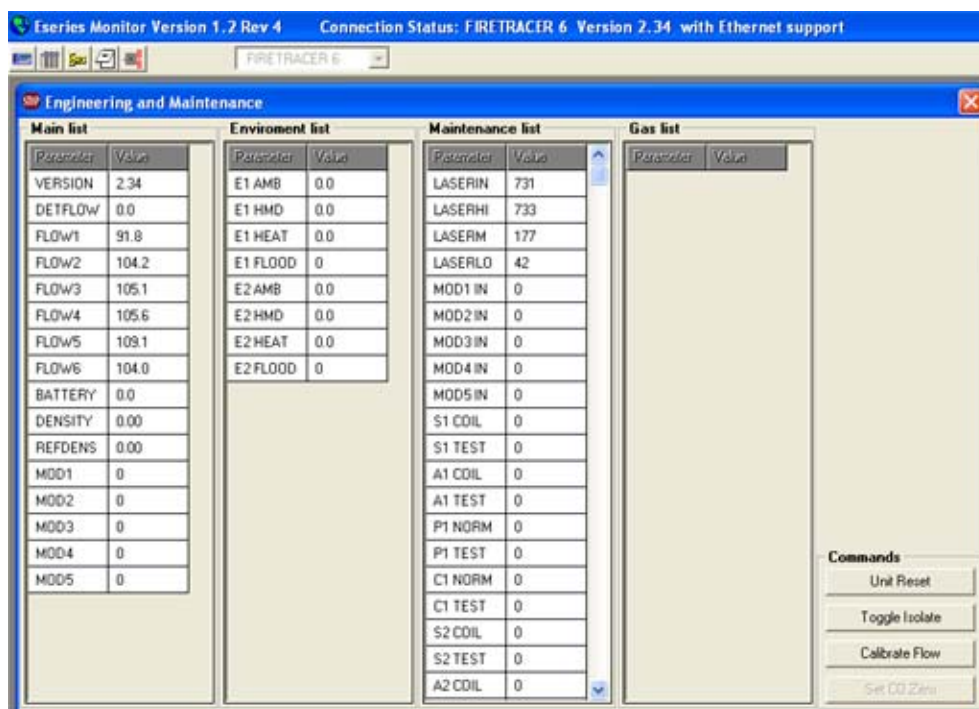
If using an EnviroTracer to monitor ambient temperature, humidity and/or heat then thresholds are entered here. The pre-alarm and main alarm can be set to sound at chosen variations from the calibrated value.

5. Web IP

Used to enter the IP address and IP mask values. The date and time may also be synchronised with that of the PC.

1.2.3 Engineering and maintenance menus

Figure 4: Engineering and maintenance menus

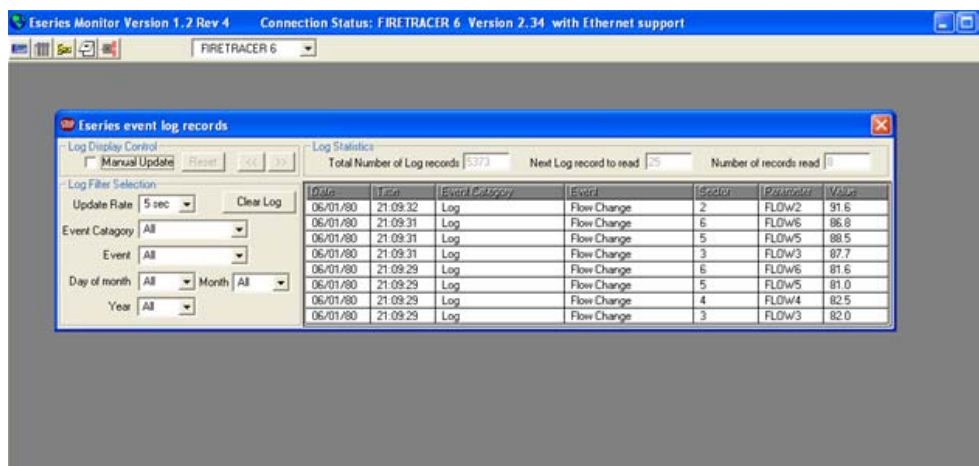


This window shows the data lists in the software. All these lists show the raw data values of that particular part of the system. These can not be altered from this window.

The command section (in the bottom right corner) gives four options including Calibrate Flow which allows an alternative to the standard method described in the panel installation and user manual..

1.2.4 Data logger

Figure 5: Data logger



The Data logger records every event that occurs with or to the system. The log is constantly added to with an update rate selected by using the drop-down menu. Other drop-down menus filter the log so specific times and events can be viewed. The event menus are as follows:

Update rate

- 5 seconds

- 10 seconds
- 30 seconds
- 1 minute
- 10 minutes

Event category

- All
- System
- Log
- Data entry
- Into alarm
- Out of alarm
- Into fault
- Out of fault

Event

- All
- Alert
- Action
- Fire 1
- Fire 2
- Pre-alarm
- Alarm
- Power up
- User
- Inet
- Modbus
- Web
- Trace
- User reset
- Ext reset
- Accept
- Laser cal
- Eeprom
- Isolated on
- Isolated off
- General
- Flow Cal
- Aspirator
- Battery
- Detector
- Flow high
- Flow low
- Mains supply
- Value change
- Flow change
- Write defaults
- Log cleared
- Rotary value

- Flood cable
- Comms Error

1.2.5 Logging extraction application

All log entries stored in the FHSD system can be extracted into a Microsoft Access database file (named EseriesLog.mdb by default). The database file has three tables:

- EventEnum
- EventCategoryEnum
- Eventslog.

EventEnum stores the events listed in **Error! Reference source not found. Error! Reference source not found.. EventCategoryEnum** stores the event category listed in **Error! Reference source not found. Error! Reference source not found..** The entries are stored into the **Eventslog** table of this database. This process can take some time depending on the number of logging entries to extract.

This is the only application that can be run when the system is offline.

Figure 6: Logging extraction application

Date	Time	Event Category	Event Desc	Sector	Parameter	Value
07/11/2003	09:29:31	Into fault	Flow High	1	FLOW1	200.0
07/11/2003	09:29:31	Into fault	Flow Low		DETFLOW	0.0
07/11/2003	09:29:31	Into fault	Flow Low	2	FLOW2	0.0
07/11/2003	09:29:31	Into fault	Flow Low	3	FLOW3	0.0
07/11/2003	09:29:31	Into fault	Flow Low	4	FLOW4	0.0
07/11/2003	09:29:31	Into fault	General			
07/11/2003	09:28:51	Data entry	Write defaults		OPCODE	0
07/11/2003	09:28:46	Data entry	Write defaults		OPCODE	0
07/11/2003	09:28:46	Log	Flow Change		DETFLOW	0.0
07/11/2003	09:28:46	Log	Flow Change	1	FLOW1	200.0
07/11/2003	09:28:46	Log	Flow Change	2	FLOW2	0.0
07/11/2003	09:28:46	Log	Flow Change	3	FLOW3	0.0
07/11/2003	09:28:46	Log	Flow Change	4	FLOW4	0.0
07/11/2003	09:28:45	Log	Flow Change		DETFLOW	0.0
07/11/2003	09:28:45	Log	Flow Change	1	FLOW1	200.0
07/11/2003	09:28:45	Log	Flow Change	2	FLOW2	0.0
07/11/2003	09:28:45	Log	Flow Change	3	FLOW3	0.0
07/11/2003	09:28:45	Log	Flow Change	4	FLOW4	0.0

The first button of the menu allows the user to open and work with an archived log. This button is active even when the system is offline to allow logs to be accessed at any time.

The second button of the menu extracts the log entries giving the option to save the old ones.

1.2.6 Flow diagnostic log

This table shows all the current flow rates for the detector and individual pipes. Raw data is taken before filtering. Filter values are taken after a 5 second filter. Head values are the flow values shown in the main list in the engineering table. Blue shows low flow values, red shows high flow values corresponding to the alarms in the panel.

Figure 7: Flow diagnostic log

Flow diagnostic log																				
		New Flow		Log Rate																
Date	Time	Head	Filter	Raw	Flow1	Filter	Raw	Flow2	Filter	Raw	Flow3	Filter	Raw	Flow4	Filter	Raw	Flow5	Filter	Raw	Flow6
17/11/03	11:59:44	99.8	1873	1861	99.9	1854	1854	99.8	1825	1826	99.8	1875	1876	99.4	2002	2003	0.0	0	0	0.0
17/11/03	11:59:32	100.1	1874	1859	99.9	1853	1854	99.8	1825	1826	99.8	1875	1876	99.3	2002	2003	0.0	0	0	0.0
17/11/03	11:59:21	99.7	1873	1864	99.9	1854	1854	99.8	1826	1825	99.8	1875	1876	99.3	2002	2002	0.0	0	0	0.0
17/11/03	11:59:09	99.8	1874	1879	100.0	1854	1855	99.7	1825	1826	99.7	1875	1875	99.3	2002	2003	0.0	0	0	0.0
17/11/03	11:58:58	99.8	1874	1872	99.9	1854	1854	99.8	1825	1826	99.8	1875	1875	99.4	2002	2003	0.0	0	0	0.0
17/11/03	11:58:47	99.7	1873	1867	99.8	1853	1854	99.8	1825	1826	99.7	1875	1875	99.4	2002	2002	0.0	0	0	0.0
17/11/03	11:58:34	99.6	1872	1872	99.7	1852	1853	99.7	1825	1826	99.7	1875	1875	99.3	2002	2003	0.0	0	0	0.0
17/11/03	11:58:22	99.7	1873	1874	99.4	1851	1853	99.8	1825	1826	99.7	1874	1875	99.4	2002	2002	0.0	0	0	0.0
17/11/03	11:58:10	99.7	1873	1869	99.2	1850	1850	99.7	1825	1825	99.6	1874	1875	99.5	2002	2001	0.0	0	0	0.0
17/11/03	11:57:59	102.0	1874	1782	100.0	1855	1857	100.0	1822	1742	100.0	1871	1767	100.0	1998	1910	0.0	0	0	0.0
17/11/03	11:57:46	100.0	1816	1817	100.0	1855	1857	100.0	1822	1742	100.0	1871	1767	100.0	1998	1910	0.0	0	0	0.0

2 FHSD WEB SERVER

2.1 FHSD Web Server overview

FHSD700 panels with the TCP/IP web server installed can be accessed over the Internet using an Ethernet connection. The panel includes an HTTP server that enables the user to remotely check for faults or alarms and to modify configuration values using a standard web browser.

Use the FHSD Web Server to check the **panel status** (main panel, sector status and environmental values) and **system Setup** (modify values, load default values and check the IP address / IP mask). Log entries may also be viewed.



See your FHSD700 Series installation and user manual for web server setup and requirements.

2.2 IP address and IP mask values

The default panel IP address is 10.0.0.230 and the IP mask is 255.255.255.0. These values can be changed from the panel menu or from the FHSD Monitor software if required.

2.3 Access levels and codes

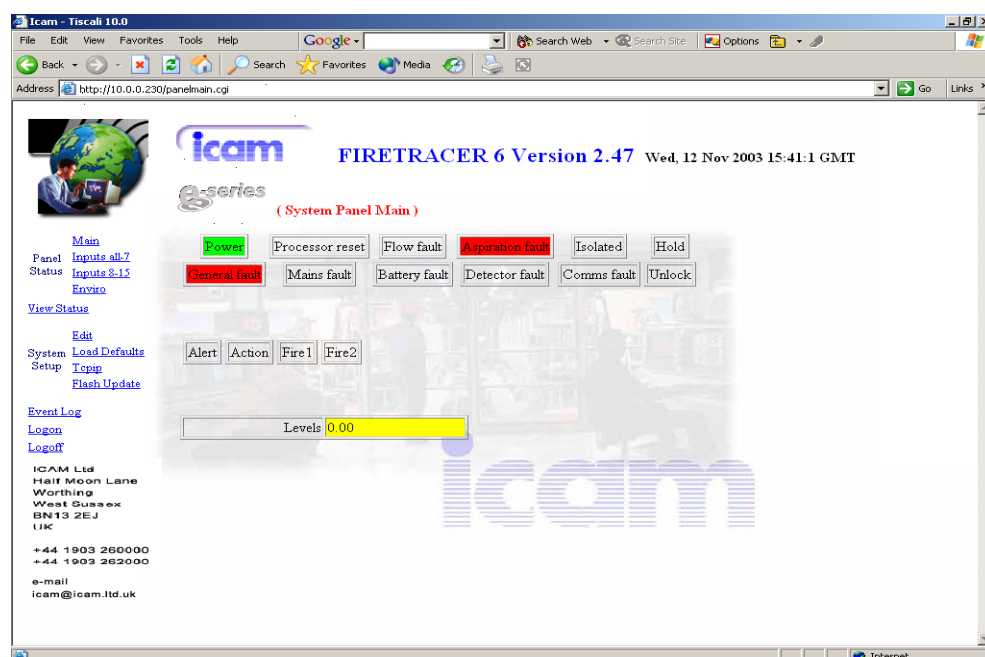
The FHSD Web Server uses two access levels for increased security – Normal user and Administrator.

Access level	Username	Access code	Description
Normal user	User	Icam	View all panel status pages, log entries and edit all system parameters except the setup and laser values.
Administrator	Admin	Icam	As above. Administrator access also allows default values to be loaded and the modification of all system parameters.

2.4 FHSD Web Server pages

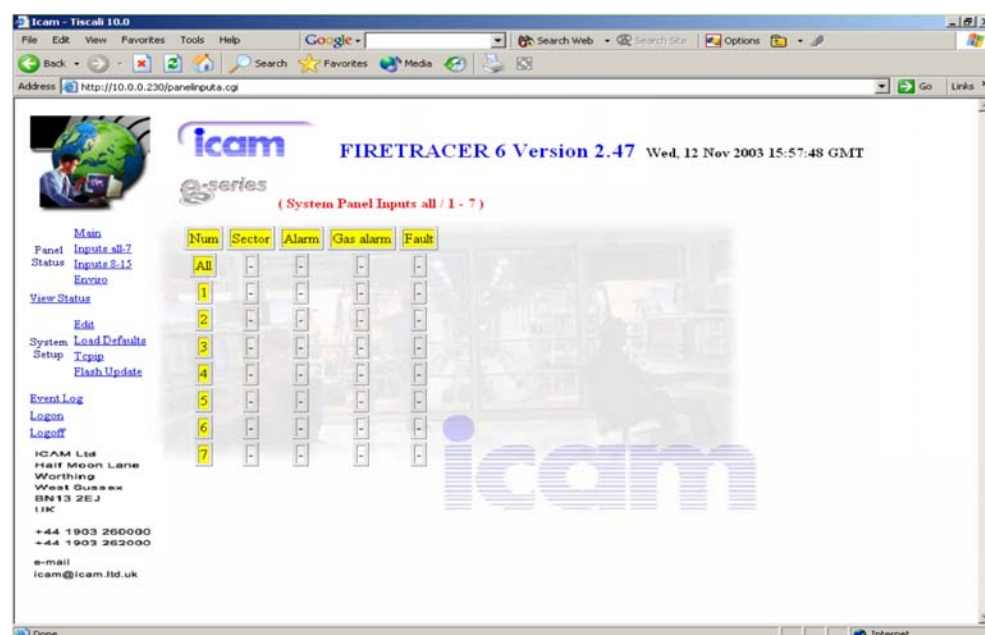
Figure 8: FHSD Web Server home page shows the home page with the fault and alarm status as well as the smoke detection level. Red values represent a fault. The panel, software version, the date and the time are shown at the top of the page.

Figure 8: FHSD Web Server home page



The Inputs pages show the status of the fault, fire and gas alarm for each individual sector.

Figure 9: FHSD Web Server Inputs pages



To modify a parameter select its parent menu from the list, select the parameter and finally enter the new value. The field colour must be white to allow modification. If the field colour is blue Administrator access code and privileges are required. Figure 10 shows the speed of the fan (SETFAN) value of the Configuration menu being updated.

Figure 10: Modifications of SETFAN value in the Configure menu

g-series FIRST
(System Edit)

Configuration SelectParameter

g-series SECOND
(System Edit)

Configuration SETFAN SelectParameter

g-series THIRD
(System Edit)

Configuration SETFAN SelectParameter

Parameter name:	SETFAN
Value	5
MaxValue	10
MinValue	0
Units	

Update

2.5 Technical support

Use the email link to contact our technical support team.

